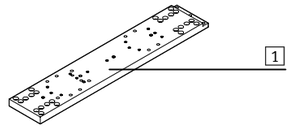
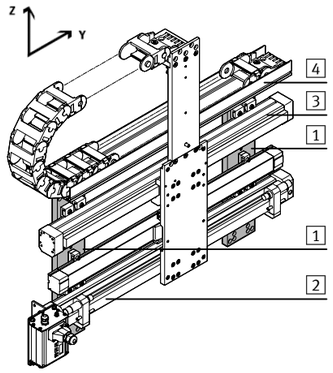
1. Grundbausatz mit Montagebeispiel

1.a. HMVD-LP-DL25/40



[1] Grundbausatz HMVD-LP-DL25/40 inklusive Befestigungselemente A-D (siehe Tabelle).



[2] Antriebseinheit (siehe Tabelle)
[3] Führungseinheit (siehe Tabelle)
[4] Anbaukomponente HMIA-E05 (siehe Tabelle)

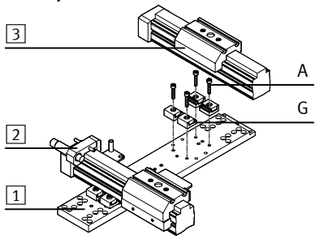
Bestimmungsgemäß dient der Grundbausatz [1] als Basis zum Aufbau von Linienportalsystemen in Duo-Bauweise. (Y-Module)

Hinweis
- Befestigen Sie einen Grundbausatz mindestens alle 500 mm.
- Berechnen Sie die dazu benötigte Anzahl y nach folgenden Formeln:
  - bei Hub ≤ 500 mm: y = 2
  - bei Hub › 500 mm : y = Ganzzahl (Hub/500) +2

Hinweis
- Montieren Sie die Antriebe, Führungen bzw. das Wegmesssystem immer zuerst an den Grundbausatz.

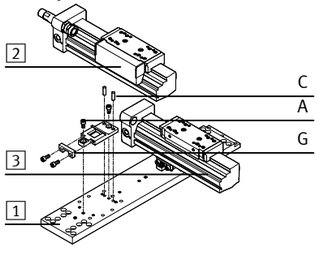
2. Befestigungsschnittstellen an Antriebseinheiten

2.a. Adaption an Linearantrieb DG..-25-..-KF



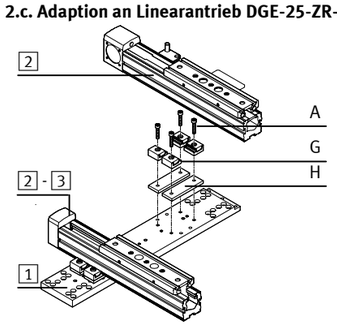
[1] Grundbausatz HMVD-LP-DL25/40
[2] Linearantrieb DGPL-25-KF, DGE-25-SP-KF oder DGE-25-ZR-KF
[3] Linearführung FDG-25-..-KF

2.b. Adaption an Linearantrieb DGC-25-KF



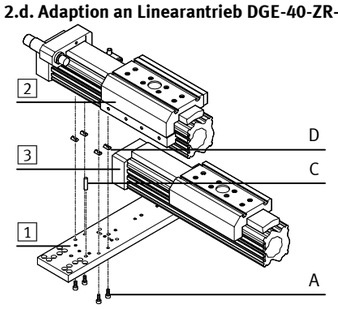
[1] Grundbausatz HMVD-LP-DL25/40
[2] Linearantrieb DGC-25-KF
[3] Linearführung DGC-25-FA

2.c. Adaption an Linearantrieb DGE-25-ZR-RF



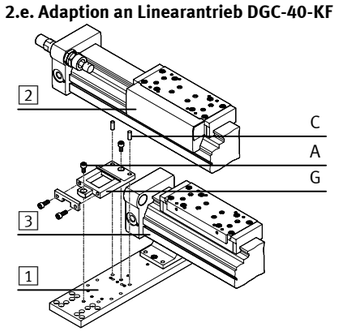
[1] Grundbausatz HMVD-LP-DL25/40
[2] Linearantrieb DGE-25-ZR-RF
[3] Linearführung FDG-25-ZR-RF

2.d. Adaption an Linearantrieb DGE-40-ZR-RF oder DG..-40-..-KF



[1] Grundbausatz HMVD-LP-DL25/40
[2] Linearantrieb DGE-40-ZR-RF, DGPL-40-KF, DGE-40-ZR-KF oder DGE-40-SP-KF
[3] Linearführung FDG-40-..-KF

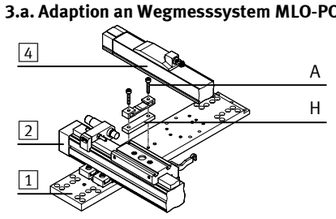
2.e. Adaption an Linearantrieb DGC-40-KF



[1] Grundbausatz HMVD-LP-DL25/40
[2] Linearantrieb DGC-40-KF
[3] Linearführung DGC-40-FA

3. Befestigungsschnittstellen an Wegmesssystem

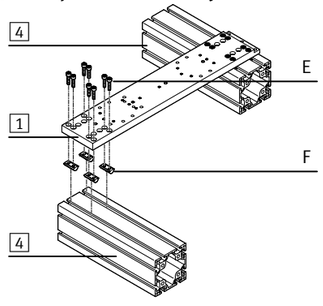
3.a. Adaption an Wegmesssystem MLO-POT-TLF



[1] Grundbausatz HMVD-LP-DL25/40
[2] Antriebseinheit
[4] Wegmesssystem MLO-POT-TLF

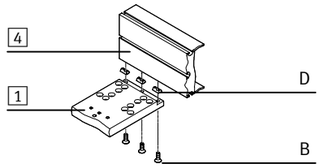
4. Befestigungsschnittstellen an Anbaukomponenten

4.a. Adaption an ein Profilsystem mit 40 mm Nutenabstand



[1] Grundbausatz HMVD-LP-DL25/40
[4] Profil HMBS-80x80

4.b. Adaption an das Auflageprofil HMIA-E05



[1] Grundbausatz HMVD-LP-DL25/40
[4] Auflageprofil HMIA-E05
- Lesen Sie dazu die Montageanleitung des Auflageprofils HMIA-E0... .

Hinweis
- Beachten Sie:
  - dass nur Befestigungskombinationen aus der Tabelle zulässig sind.
  - dass Befestigungselemente bei manchen Kombinationen übrig bleiben.
  - dass die Stückzahlen in der Tabelle pro Grundbausatz angegeben sind.
  - zur Erdung, die Montageanleitung des Erdungsbausatzes.

[1]	**Grundbausatz**									
	Typ	**HMVD-LP-DL25/40**								
	Teile-Nr.	**539 971**								
[2]	**Antriebseinheit**	**Linearantriebe ..-25-..**			**Linearantriebe ..-40-..**					
	Typ	**DG..-25-..-KF**	**DGC-25-KF**	**DGE-25-ZR-RF**	**DG..-40-..-KF**	**DGC-40-KF**	**DGE-40-ZR-RF**			
[3]	**Führungseinheit**	**Linearführung ..-25-..**			**Linearführung ..-40-..**					
	Typ	**FDG-25-..-KF**	**DGC-25-FA**	**FDG-25-ZR-RF**	**FDG-40-..-KF**	**DGC-40-FA**	**FDG-40-ZR-RF**			
[4]	**Anbaukomponenten**							**Wegmesssys.**		
	Typ							**MLO-POT-TLF**	**HMBS-80x80**	**HMIA-E05**
	Schnittstelle	2.a.	2.b.	2.c.	2.d.	2.e.	2.d.	3.a.	4.a.	4.b.
Befestigungselemente im Lieferumfang										
A	**Zylinderschrauben**									
	M5x10 DIN 912		4x							
	M5x12 DIN 912				8x		8x			
	M5x25 DIN 912	8x		8x				2x		
	M6x12 DIN 912					4x				
B	**Senkschrauben**									
	M5x14 DIN 7991									3x
C	**Zylinderstifte**									
	5m6x16 DIN 7		2x							
	6m6x16 DIN 7					2x				
	6m6x24 DIN 7				1x		1x			
D	**Nutensteine**									
	HMBN-5-M5				8x		8x			3x
Befestigungselemente nicht im Lieferumfang										
E	**Zylinderschrauben**									
	M5x20 DIN 912								8x (16x) [1]	
F	**Nutensteine**									
	HMBN-8-2M5								4x (8x) [1]	
G	**Mittenstützen**									
	MUP-18/25	4x		4x						
	MUC-25		2x							
	MUC-40					2x				
H	**Verbindungsplatten**									
	HMVO-RF25			4x						
	HMVO-POT							1x [3]		
Gewinde		**M5**	**M6**							
Anzugsdrehmomente in Nm		**5,8**	**10**							

1) Die Klammerwerte beziehen sich auf doppelte Profilanbindung.
3) Die Verbindungsplatte als Höhenausgleich ist nur bei Größe 25 erforderlich.

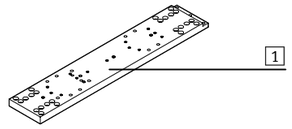
Montageanleitung (de)
689939 / 2005-02NH

Grundbausatz HMVD-LP-DL25/40

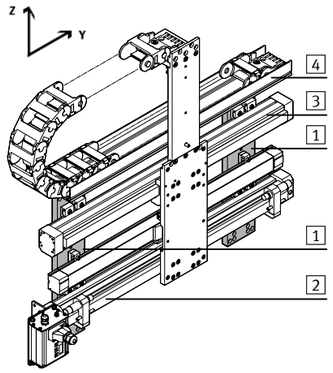
FESTO
Festo AG & Co. KG
Postfach
73726 Esslingen
++49/(0)711/347-0
www.festo.com

1. Basic kit with assembly example

1.a. HMVD-LP-DL25/40



1 Basic kit HMVD-LP-DL25/40 Including mounting attachments (A-D) (see table).



2 Drive unit (see table)
3 Guide unit (see table)
4 Attachment component HMIA-E05 (see table)

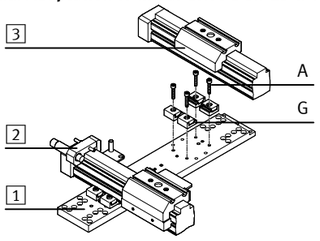
The basic kit 1 is intended for use as a basis for the setup of linear gantry systems in duo design (Y modules).

Note
- Attach a basic kit at least every 500 mm.
- Calculate the required quantity y using the following formulas:
  - Where stroke length = 500 mm: y = 2
  - Where stroke length › 500 mm: y = whole-number (stroke/500) +2

Note
- Always mount the drives, the guides or the displacement system to the basic kit first.

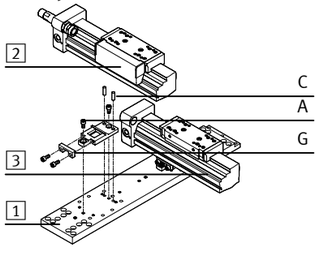
2. Mounting interfaces to drive units

2.a. Adaptation to linear drive DG..-25-..-KF



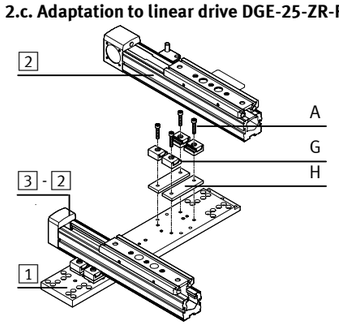
1 Basic kit HMVD-LP-DL25/40
2 Linear drive DGPL-25-KF, DGE-25-SP-KF oder DGE-25-ZR-KF
3 Linear guide FDG-25-..-KF

2.b. Adaptation to linear drive DGC-25-KF



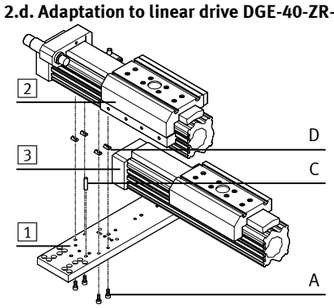
1 Basic kit HMVD-LP-DL25/40
2 Linear drive DGC-25-KF
3 Linear guide DGC-25-FA

2.c. Adaptation to linear drive DGE-25-ZR-RF



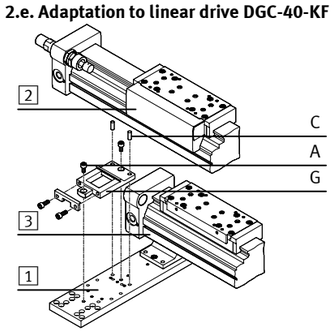
1 Basic kit HMVD-LP-DL25/40
2 Linear drive DGE-25-ZR-RF
3 Linear guide FDG-25-ZR-RF

2.d. Adaptation to linear drive DGE-40-ZR-RF or DG..-40-..-KF



1 Basic kit HMVD-LP-DL25/40
2 Linear drive DGE-40-ZR-RF, DGPL-40-KF, DGE-40-ZR-KF or DGE-40-SP-KF
3 Linear guide FDG-40-..-KF

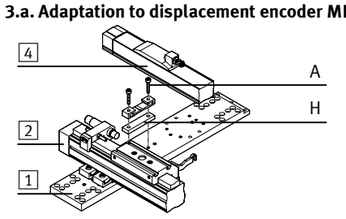
2.e. Adaptation to linear drive DGC-40-KF



1 Basic kit HMVD-LP-DL25/40
2 Linear drive DGC-40-KF
3 Linear guide DGC-40-FA

3. Mounting interfaces to displacement encoders

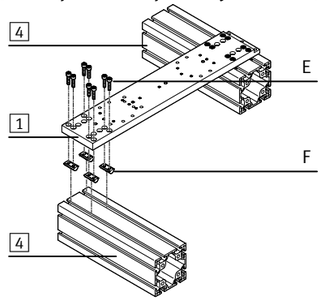
3.a. Adaptation to displacement encoder MLO-POT-TLF



1 Basic kit HMVD-LP-DL25/40
2 Drive unit
4 Displacement encoder MLO-POT-TLF

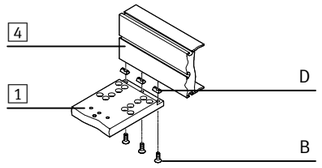
4. Mounting interfaces to attachment components

4.a. Adaptation to a profile system with 40 mm slot width



1 Basic kit HMVD-LP-DL25/40
4 Profile HMBS-80x80

4.b. Adaptation to support profile HMIA-E05



1 Basic kit HMVD-LP-DL25/40
4 Support profile HMIA-E05
- Refer to the assembly instructions for support profile HMIA-E0... to this end.

Note
- Please note:
  - that only attachment combinations shown in the table are permissible.
  - that mounting attachments are left over with some combinations.
  - that the quantities in the table are specified per basic kit.
  - for earthing, the assembly instructions for the earthing kit.

Assembly instructions (en)
689939 / 2005-02NH

Basic kit HMVD-LP-DL25/40

FESTO
Festo AG & Co. KG
Postfach
73726 Esslingen
++49/(0)711/347-0
www.festo.com

1 Basic kit										
Type	HMVD-LP-DL25/40									
Part No.	539 971									
2 Drive unit	Linear drives ..-25-..			Linear drives ..-40-..					
Type	DG..-25-..-KF	DGC-25-KF	DGE-25-ZR-RF	DG..-40-..-KF	DGC-40-KF	DGE-40-ZR-RF			
3 Guide units	Linear guide ..-25-..			Linear guide ..-40-..					
Type	FDG-25-..-KF	DGC-25-FA	FDG-25-ZR-RF	FDG-40-..-KF	DGC-40-FA	FDG-40-ZR-RF			
4 Attachment component							Displacement		
Type							MLO-POT-TLF	HMBS-80x80	HMIA-E05
Interface	2.a.	2.b.	2.c.	2.d.	2.e.	2.d.	3.a.	4.a.	4.b.
Mounting attachments included in scope of delivery									
A Socket head screws									
M5x10 DIN 912		4x							
M5x12 DIN 912				8x		8x			
M5x25 DIN 912	8x		8x				2x		
M6x12 DIN 912					4x				
B Countersunk screws									
M5x14 DIN 7991									3x
C Dowel pins									
5m6x16 DIN 7		2x							
6m6x16 DIN 7					2x				
6m6x24 DIN 7				1x		1x			
D Slot nuts									
HMBN-5-M5				8x		8x			3x
Mounting attachments not included in scope of delivery									
E Socket head screws									
M5x20 DIN 912								8x (16x) [1]	
F Slot nuts									
HMBN-8-2M5								4x (8x) [1]	
G Central supports									
MUP-18/25	4x		4x						
MUC-25		2x							
MUC-40					2x				
H Connecting plates									
HMVO-RF25			4x						
HMVO-POT							1x [3]		
Thread	M5	M6							
Tightening torque in Nm	5.8	10							

1) Values in parentheses make reference to a double profile connection.

3) The connecting plate is only required for height compensation for size 25.